

AMENDMENT UNDER 37 C.F.R. § 1.111
US APPLICATION NO. 10/712,998
ATTORNEY DOCKET NO. Q78497

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A flame retardant ethylene family resin composite comprising a flame retardant resin composite having a specific gravity of 1.14 or less, as a product of a process comprising the steps of:

preparing a flame retardant agent comprising magnesium hydroxide and stearic acid
adhering thereto;
providing a core element comprising the flame retardant agent;
surface-treating the core element with a polyorganosiloxane, thereby preparing a particle
element having the core element coated with a polyorganosilane;
preparing a flame retardant particle comprising the particle element;
mixing an ethylene vinyl acetate copolymer (EVA) and an ethylene ethyl acrylate
copolymer (EEA), thereby preparing an ethylene family copolymer; and
preparing the flame retardant resin composite comprising a dispersion medium
comprising the ethylene family copolymer, and a system of flame retardant particles evenly
dispersed in the dispersion medium - an ethylene family copolymer, each respectively having a
flame retardant agent including magnesium hydroxide and polyorganosilane.
2. (canceled).

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3. (canceled).

4. (currently amended): A The flame retardant ethylene family resin composite as claimed in accordance to claim 1, wherein each the flame retardant particle comprises polyorganosiloxane treated magnesium hydroxide, and an assisting flame retardant agent provided about the flame retardant agent, the core element, or the particle element.

5. (currently amended): A The flame retardant ethylene family resin composite as claimed in accordance to claim 4, wherein the flame retardant resin composite comprises contains a blend of 40 to 50 parts in by weight of the particle element the particle polyorganosiloxane-treated magnesium hydroxide and 2 to 10 parts in by weight of the assisting flame retardant agent, to 100 parts in by weight of the ethylene family copolymer.

6. (currently amended): A The flame retardant ethylene family resin composite as claimed in accordance to claim 5, wherein the ethylene family copolymer comprises a mixture of 20 to 40 parts in by weight of the ethylene vinyl acetate copolymer (EVA) and 80 to 60 parts in by weight of the ethylene ethyl acrylate copolymer (EEA).

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7. (currently amended): A The flame retardant ethylene family resin composite as claimed in according to claim 4, wherein the assisting flame retardant agent comprises an aluminium hydroxide composite.

8. (currently amended): A The flame retardant ethylene family resin composite as claimed in according to claim 7, wherein the aluminium hydroxide composite comprises ammonium molybdate-treated aluminium hydroxide.

9. (currently amended): A The flame retardant ethylene family resin composite as claimed in according to claim 4, wherein the assisting flame retardant agent comprises silicon powder.

10. (currently amended): A The flame retardant ethylene family resin composite as claimed in according to claim 5, wherein the flame retardant resin composite further comprises 0.5 to 5.0 2 to 5 parts in by weight of stearic acid a process assisting agent as an additive.

11. (canceled).